WATER HEATING FOR MULTI-FAMILY BUILDINGS DHW-2B

Project Title _____ Date _____

Notes: In addition to this form, a DHW-1 Water Heating Worksheet must also be submitted to document water heating type(s). If the calculation (line 4) is by "Individual Dwelling Unit" and system configuration (line 5) is "Individual Heaters," no additional information need be entered on this sheet.

Multi-Family Project Data

1. Number of dwelling units: _____
2. Total conditioned floor area: _____ ft^2
3. Average floor area: _____ (Line 2/Line 1)
4. Calculation by (check one): ___ Average Dwelling Unit
   ___ Individual Dwelling Unit
5. System configuration (check one): ___ Individual Heaters (one per dwelling unit)
   ___ Shared Heaters (multiple dwelling units per heater)

Analysis by Average Dwelling Unit

One Individual Heater Per Dwelling Unit

	No. of Heaters	Heater Type#	Manufacturer and Model#	Gallons Each	Gallons Total[1]	Energy Factor Each	Energy Factor Total[2]	Thermal Efficiency Each	Thermal Efficiency Total[3]
6a =									
6b =									
6c =									
Total	_____ = 7a				Total _____ = 7b		Total _____ = 7c		Total _____ = 7d
					Ave. = 8a (7b/7a)		Ave. = 8b (7c/7a)		Ave. = 8c (7d/7a)

Individual Heaters

9a. Enter value 8a on DHW-1 Line E.
10a. Enter value 8b on DHW-1 Line D.
11a Enter value 8c on DHW-1 line G.
12a. Check compliance on DHW-1 for average dwelling unit and average water heating.

Shared Heater(s)

9b. Average unit Adjusted Recovery Load: _____ From DHW-1, Line 1d

10b. Total Adjusted Recovery Load: _____ (Line 1) × (Line 9b)

11b. Total Basic Energy Use: _____ From Table 6-7, or DHW-3

12b. Average Unit Basic Energy Use: _____ (Line 11b) ÷ (Line 1): enter on Line 2a, DHW-1

13b. Check average unit compliance on DHW-1.

Compliance

14. **Prescriptive Compliance** (for individual or shared heaters):
    DHW-1 Line 2c must be equal to or less than DHW-1 Line 3.
    See Part 6.1 and Chapter 3 in the *Residential Manual* for details.

[1] Total Gallons = (No. of Heaters) x (Gallons for each heater of this Heater Number)
[2] Total Energy Factor = (No. of Heaters) x (Energy Factor for each heater of this Heater Number)
[3] Total Thermal Efficiency = (No. of Heaters) x (Thermal Efficiency for each heater of this Heater Number)